

A NEW SPECIES OF *CULICOIDES* (*OECACTA*) (DIPTERA, CERATOPOGONIDAE) FROM CHINA

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Abstract A new species of *Culicoides* (*Oecacta*), *Culicoides* (*Oecacta*) *balikumensis* sp. nov. is described from Xinjiang Uygur Autonomous Region in China. The type specimens are deposited in the Center for Disease Control and Prevention of Shenyang PLA Command, Shenyang.

Key words Ceratopogonidae, genus *Culicoides*, subgenus *Oecacta*, new species, China.

The genus *Culicoides* includes 1 328 species in 37 subgenera in the world (Yu and Liu, 2006). 305 species in 12 subgenera were known in China. Subgenus *Oecacta* includ 94 species in 3 sections (Yu, 2005). A new species of *Culicoides* (*Oecacta*) is found in the specimens collected from Xinjiang Uygur. Autonomaus Region. The type specimens are deposited in the Center for Disease Control and Prevention of Shenyang PLA Command, Shenyang.

***Culicoides* (*Oecacta*) *balikumensis* sp. nov.** (Figs 1 – 6)

Diagnosis. Wing with 11 pale spots. Antenna sensilla coeloconica present on segments 3, 11 – 15. Aedeagus with a pairs lateral spinae in distal portion; parameres with bases fused.

Female. Wing length 1.15 mm, width 0.53 mm, costal ratio (CR) 0.56.

Head. Eyes separated by width of a ommatidial facets, without interfacetal hairs; front with transverse suturae. Antenna with lengths of flagellar segments in proportion of 17:13:13:13:13:13:13:14:20:21:22:22:25, antennal ratio (AR) 1.01, sensilla coeloconica present on segments 3, 11 – 15. Palpus with lengths of segments in proportion of 12:33:26:12:11, third segment moderately swollen, with a large sensory pit, palpal ratio (PR) 2.00. Proboscis length 170 μ m, probosis head ratio (P/H) 0.87, mandible with 15 teeth, maxilla with 21 teeth.

Thorax. Wing with pale spot and dark mark, wing with 11 pale spots. Wing base portion with a pale spot, and contiguity with a pale spot in basal portion of Anal cell; anterior margin of wing with 3 pale sports, first pale spot over basal one-third of cell R₁ and r-m cross-vein; second pale spot in outside of cell R₂, cell R₂ with very dark areas; third pale spot in distal portion of cell R₅. Two pale sports in cell M₁.

Cell M₂ with two round pale spots. A pale spot in cell M₄. Basal portion with a pale spot, and distal portion with two pale sports in Anal cell. Wing with macrotrichia, but basal cell without macrotrichia. Foreleg with lengths of F-T in proportion of 70:69:35:20:12:9:10, TR 1.75; midleg with lengths of F-T in proportion of 89:88:48:21:13:9:10, TR 2.29; hindleg with lengths of F-T in proportion of 86:85:42:27:16:10:11, TR 1.56; hindtibial comb with 4 spines, first and second from the spur longest.

Abdomen. Spermathecae 2, unequal, 65 μ m \times 55 μ m, 60 μ m \times 50 μ m.

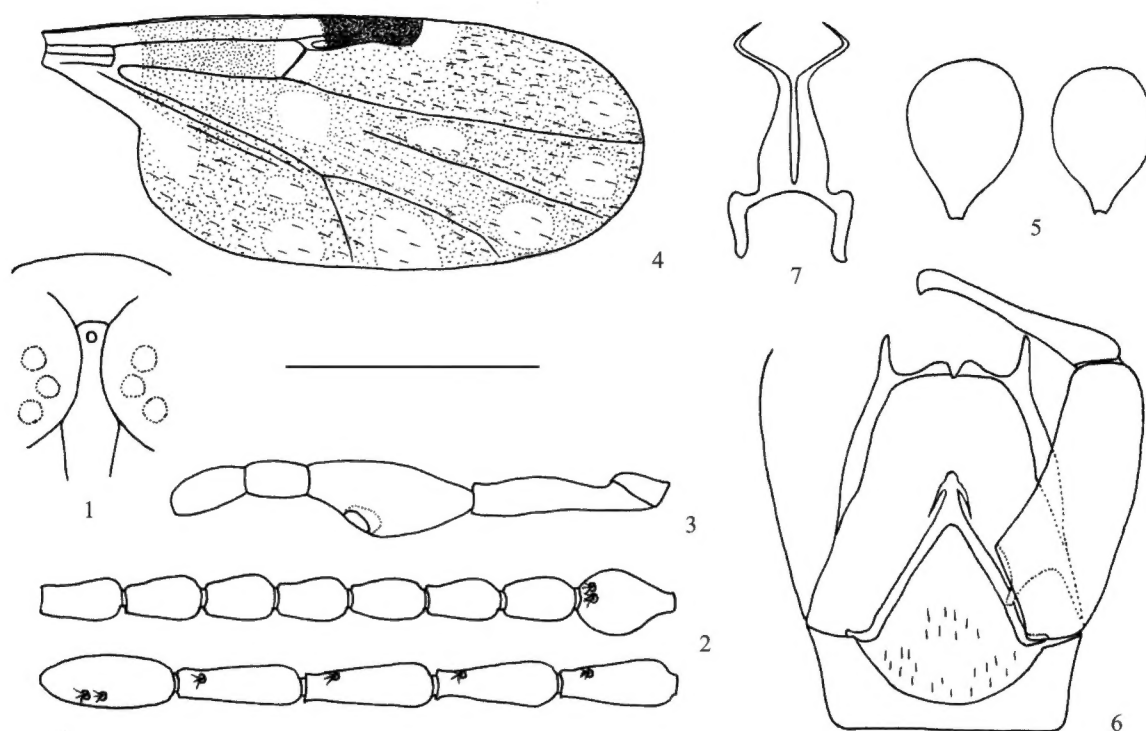
Male. Similar to female, with usual sexual differences. Genitalia, ninth sternum with deep caudomedian excavation, ventral membrane spiculate; ninth tergum apically with small “V” excavation, and with two submedian lobes, with distinct apicolateral processes. Basistyle stout, without ventral root, with fingered dorsal root present; dististyle slightly straight. Aedeagus with triangle, basal arch extending nealy to three-fourths of total length, and distal portion with a pairs lateral spinae. Parameres with bases fused, bow shape, main body swollen, tapering to attenuated tip, slender.

Holotype ♀, Xinjiang Balikun, Dahan Mountain (45°05'N, 96°25'E; alt. 1 650 m), 27 July 1989, MA De-Xin. **Paratype** 1 ♀, same data as holotype.

Etymology. The specific name refers to the place of specimens collected in Balikun.

Distribution. China (Xinjiang).

Remarks. Wing pattern of the new species is similar to *Culicoides pictimargo* Tokunaga et Shogaki, 1953, but both of them are distinctly different in the sensilla coeloconica present on segmant 3 – 15 of female, and shape of aedeagus and parameres of male of *Culicoides pictimargo* Tokunaga et Shogaki, 1953. The aedeagus of the new species is also similar to *Culicoides*



Figs 1–7. *Culicoides (Oecacta) balikunensis* sp. nov. 1–5. ♀. 6–7. ♂. 1. Front. 2. Antenna. 3. Maxillary. 4. Wing. 5. Spermatheca. 6. Hypopygium. 7. Parameres. Scale bar = 0.5 mm.

tahemanensis Liu et Ma, 2001, but is distinctly different in the parameres sparated, ninth tergum apically with a median lobe, and without concave of male of *Culicoides tahemanensis* Liu et Ma, 2001.

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中国库蠓属屋室亚属一新种（双翅目，蠓科）

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摘要 记述了采自新疆的库蠓属屋室亚 *Culicoides (Oecacta)* 1 新种，巴里坤库蠓 *Culicoides (Oecacta) balikunensis* sp. nov., 新种模式标本保存在沈阳军区疾病预防控制中心。

巴里坤库蠓，新种 *Culicoides (Oecacta) balikunensis* sp. nov.
(图 1~6)

新种翅斑与边缘库蠓 *Culicoides pictimargo* Tokunaga et Shogaki, 1953 相近似，但边缘库蠓 *Culicoides pictimargo* Tokunaga et Shogaki, 1953 雌虫的触角嗅觉器分布在第 3~15

关键词 蠓科，库蠓属，屋室亚属，新种，中国。

中图分类号 Q969.442.7

节，雄虫阳茎中叶和阳基侧突的形状与新种明显不同。新种雄虫的阳茎中叶与塔合曼库蠓 *Culicoides tahemanensis* Liu et Ma, 2001 也相近似，但塔合曼库蠓 *Culicoides tahemanensis* Liu et Ma, 2001 的阳基侧突分离，第 9 背板后缘中部有 1 突起，无凹陷与新种明显不相同。

正模 ♀，新疆巴里坤，海拔 1 650 m，1989-07-27，马德新采。副模 1 ♂，同正模。

词源：新种种名来源于标本采集地点巴里坤。